

CLAIMS:

What is claimed is:

1 ~~Sub B2~~ 1. ~~A buffer management system comprising:~~  
2 a buffer pool further comprised of an amount of fixed storage and an amount of  
3 virtual storage; and  
4 a buffer manager for dynamically varying the amount of fixed storage and the  
5 amount of virtual storage based on a comparison of present usage of the amount of  
6 ~~fixed storage and the amount of virtual storage to target values.~~

1 2. The buffer management system of claim 1, wherein the buffer pool  
2 is further comprised of fixed, pageable and released logical partitions and each of the  
3 buffers in the buffer pool resides in a state comprising one of said logical partitions.

1 3. The buffer management system according to claim 2, further comprising  
2 a buffer index table further comprising buffer index elements wherein each entry  
3 represents one buffer in the buffer pool.

1 4. The buffer management system according to claim 3, wherein said buffer  
2 index elements further comprise a buffer state information field which represents the  
3 logical partition where the buffer resides and a pointer field to the next available buffer  
4 in the same state within the buffer pool.

1 ~~Sub B2~~ 5. ~~A buffer management system for an operating environment which~~  
2 supports both fixed and virtual storage comprising:  
3 a buffer pool comprising a plurality of buffers logically partitioned into three  
4 states, fixed, pageable and released, said buffer pool further comprising both fixed and  
5 ~~virtual storage; and~~

6 ~~a buffer manager further comprising system target usage values for said fixed~~  
7 ~~and virtual storage and a comparator for comparing actual fixed and virtual usage~~  
8 ~~values to target usage values, wherein said buffer manager varies the amount of fixed~~  
9 ~~and virtual storage used by moving buffers in said buffer pool between said logical~~  
10 ~~partitions.~~

1 6. The buffer management system according to claim 5, further comprising a  
2 a buffer index table further comprising buffer index elements wherein each entry  
3 represents one buffer in the buffer pool.

1 7. The buffer management system according to claim 6, wherein said buffer  
2 index elements further comprise a buffer state information field which represents the  
3 logical partition where the buffer resides and a pointer field to the next available buffer  
4 in the same state within the buffer pool.

1 8. ~~An article of manufacture comprising:~~  
2 ~~a buffer pool further comprised of an amount of fixed storage and an amount of~~  
3 ~~virtual storage; and~~  
4 ~~a buffer manager for dynamically varying the amount of fixed storage and the~~  
5 ~~amount of virtual storage based on a comparison of present usage of the amount of~~  
6 ~~fixed storage and the amount of virtual storage to target values.~~

1 9. The article of manufacture according to claim 8, wherein the buffer pool  
2 is further comprised of fixed, pageable and released logical partitions.

1 10. The article of manufacture according to claim 9, further comprising  
2 a buffer index table further comprising buffer index elements wherein each entry  
3 represents one buffer in the buffer pool.

1 11. The article of manufacture according to claim 10, wherein said buffer  
2 index elements further comprise a buffer state information field which represents the  
3 logical partition where the buffer resides and a pointer field to the next available buffer  
4 in the same state within the buffer pool.

1 *Sub B4* 12. ~~An article of manufacture for an operating environment which supports~~  
2 ~~both fixed and virtual storage comprising:~~  
3 ~~a buffer pool comprising a plurality of buffers logically partitioned into three~~  
4 ~~states, fixed, pageable and released, said buffer pool further comprising both fixed and~~  
5 ~~virtual storage; and~~  
6 ~~a buffer manager further comprising system target usage values for said fixed~~  
7 ~~and virtual storage and a comparator for comparing actual fixed and virtual usage~~  
8 ~~values to target usage values, wherein said buffer manager varies the amount of fixed~~  
9 ~~and virtual storage used by moving buffers in said buffer pool between said logical~~  
10 ~~partitions.~~

1 13. The article of manufacture according to claim 12, further comprising a  
2 a buffer index table further comprising buffer index elements wherein each entry  
3 represents one buffer in within the buffer pool.

1 14. The article of manufacture according to claim 13, wherein said buffer  
2 index elements further comprise a buffer state information field which represents the  
3 logical partition where the buffer resides and a pointer field to the next available buffer  
4 in the same state in within the buffer pool.